Geometry honors problem sets

Area with circles

1. Find the area of an isosceles right triangle with a hypotenuse of 18cm.

2. Describe 2 different ways you could find the area of parallelogram PQRS below.

3. Find the area of the shaded region given the diameter of the circle is 22in and the short side of the

inscribed rectangle is 5in.



4. Find the area of the horseshoe shaped un-shaded region.

5. Draw a square and its inscribed and circumscribed circles. Find the ratio of the areas of these two

circles.

6. Draw and equilateral triangle and its inscribed and circumscribed circles. Find the ratio of these two

circles.